LMA District Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 0827 Elkhorn

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				
	** Non-receipt of Su	ımmer or Winter Inspe	ection Reports may effect	ct overall annual rating.
* SPRING INSPECTIONS: Overall maintenance deficiencies are rated		nined for the spring ins ria in the spring and in		ual maintenance
FALL INSPECTIONS: The overall maintena within the attached u			on and maintenance de nded to be an indiction o	
Comments				

Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles
Unit No. 01 Sacramento River	Right	1.35

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/18/2014 - 03/18/2014			
DWR Inspector	John Williamson			
Accompanied By	Dan Ramos Ramco, RD 827			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

http://cdec.water.ca.gov/lma.html

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	03/18/2014 03/18/2014	John Williamson

LM Start		Rating **	Α	Issue No.		5	
LM End		Issue Type +	Ma	Location *		WS	
Category Earthen Levee			GPS La	atitud	e/Longitude		
Calegory				Start		End	
Item	Operations & Maintenance				0		0
item	Manuals				0		0
DWR ID	DWR_RD0	827_01_s _ 201	3_5				
Action/Comments							

No Photos

LM Start		Rating **	Α	Issue No.		7	
LM End		Issue Type +	Ma	Location *		WS	
Category Earthen Levee			GPS La	atitud	le/Longitude		
Calegory	y			Start		End	
Item	Emergency Supplies &				0		0
пеш	Equipmer	nt			0		0
DWR ID	DWR_RD0	827_01_s _ 201	13_7				
		Action/	Comme	nts			

No Photos

LM Start		Rating **	Α	Issue No.		9		
LM End		Issue Type +	Ма	Location *		WS		
Category Earthen Levee				GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Flood Pre	paredness &		٥		0		
пеш					0		0	
DWR ID	DWR_RD0	827_01_s _ 201	3_9					
	Action/Comments							

No Photos

* Location LS : Land Side WS: Water Side CR : Crown

** Rating

A : Acceptable
M : Minimally Acceptable
U : Unacceptable

N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain

+ Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence
En : Enforcement

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	03/18/2014 03/18/2014	John Williamson

LM Start	0.23	Rating **	М	Issue No.		108	
LM End	0.23	Issue Type +	En	Location *		CR	
Category	GPS La	atitud	le/Longitude				
Category			Start		End		
Item	Encroachments			38.6726	54 °	38.672654	٥
item				-121.6272	42 °	-121.627242	٥
DWR ID	DWR_RD0	827_01_s _ 201	4_108				
Action/Comments							
Debris							



Pallets and debris from the rail road left on levee crown. Spring 2014

LM Start	0.27	Rating **	M Issue No. 109		Issue No.		
LM End	0.27	Issue Type +	Issue Type + Ma Location			WS	
Category Earthen Levee			GPS La	atitud	le/Longitude		
Calegory				Start		End	
Item	Erosion / Bank Caving			38.6724	06°	38.672406	
item				-121.6268	28 °	-121.626828 '	
DWR ID	DWR_RD0	827_01_s _ 201	4_109				
Action/Comments							
Note and monitor erosion site.							



Erosion on the waterside shoulder 1'-2' deep. Spring 2014

LM Start	0.28	Rating **	М	Issue No.		112
LM End	0.28	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS La	atitud	le/Longitude	
Calegory						End
Item	Animal Control			38.6721	70°	38.672170 °
пеш				-121.6270	49 °	-121.627049 °
DWR ID	DWR_RD0	827_01_s _ 201	4_112			
		Action/	Comme	nts		
Repair the levee slope damaged by livestock and prevent large animal access.						



Some rodent damage on the landside levee slope. Spring 2014

* Location
LS: Land Side
WS: Water Side
CR: Crown

** Rating

A : Acceptable
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U : Unacceptable

N : Not Inspected/Rated C : Corrected VW : Acceptable but Monitor & Maintain + Issue Type

Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	03/18/2014 03/18/2014	John Williamson

LM Start	0.31	Rating **	A/W	Issue No.	2		
LM End	0.37	Issue Type +	Ob	Location *	WS		
Category Earthen Levee				GPS Latitude/Longitude			
Calegory				Start		End	
Item	Trim / Thin Trees			38.6719	59 °	38.671376 °	
пеш				-121.626305 °		-121.625608 °	
DWR ID	DWR_RD0	827_01_s _ 201	2_2				
Action/Comments							
Thin trees to allow visibility of the ground and room to flood fight.							



Thick vegetation on the waterside. Fall 2011

LM Start	0.31	Rating **	A/W	Issue No.	2 (cont)
LM End	0.37	Issue Type +	Ob	Location *	WS



Vegetation is at least 20 feet down the levee slope with trees along the waters edge. Spring 2014

0.42	Rating **	М	Issue No.		110		
0.42	Issue Type +	En	Location *	CR			
Category Earthen Levee			GPS Latitude/Longitude				
			Start		End		
Encroachments			38.67082	29 °	38.670829°		
			-121.6249	21 °	-121.624921 °		
DWR_RD0	827_01_s _ 201	4_110					
Action/Comments							
	0.42 Earthen L Encroach	0.42 Issue Type + Earthen Levee Encroachments DWR_RD0827_01_s _ 201	0.42 Issue Type + En Earthen Levee Encroachments DWR_RD0827_01_s _ 2014_110	0.42 Issue Type + En Location * Earthen Levee GPS La Start Encroachments 38.6708: -121.6249: DWR_RD0827_01_s _ 2014_110 -2014_110	0.42 Issue Type + En Location * Earthen Levee GPS Latitud Start Encroachments 38.670829 ° -121.624921 ° DWR_RD0827_01_s _ 2014_110		



Debris from the railroad is stacked along the crown shoulder. Spring 2014

* Location LS : Land Side WS : Water Side CR : Crown ** Rating

A : Acceptable
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Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	03/18/2014 03/18/2014	John Williamson

LM Start	0.54	Rating **	N	Issue No.	13			
LM End	0.54	Issue Type +	Ma	Location *	LS			
Category	Earthen L	arthen Levee			GPS Latitude/Longitude			
Calegory				Start End				
Item	Trim / Thin Trees			38.66944	15 °	38.669445 °		
пеш				-121.62357	74 °	-121.623574 °		
DWR ID	DWR_RD0	827_01_s _ 201	2_13					
Action/Comments								
Tree stum	ps.							



A tree stump on the levee slope. Photo fall 2012.

LM Start	0.61	Rating **	A/W	Issue No.		22		
LM End	0.92	Issue Type +	Ма	Location *		WS		
Category Earthen Levee				GPS La	atitud	le/Longitude		
Calegory				Start		End		
Item	Vegetatio	Vegetation			73 °	38.665750		
item				-121.6225	13 °	-121.618523		
DWR ID	DWR_RD0	827_01_s _ 201	2_22					
Action/Comments								
Environmental Requirements.								



Revegetaion site with fencing, irrigation and stakes to hold netting.

Photo taken spring 2012.

LM Start	0.61	Rating **	A/W	Issue No.	22 (cont)
LM End	0.92	Issue Type +	Ma	Location *	WS



Revegetation site spring 2012.

* Location
LS: Land Side
WS: Water Side
CR: Crown

** Rating

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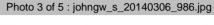
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Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	03/18/2014 03/18/2014	John Williamson

LM Start	0.61	Rating **	A/W	Issue No.	22 (cont)				
LM End	0.92	Issue Type +	Ma	Location *	WS				
Category	Catagoni Earthen Levee				GPS Latitude/Longitude				
Calegory				Start		End			
Item	Vegetation			Vegetation 38.668		38.6688	73 °	38.665750	0
item				-121.6225	13 °	-121.618523	0		
DWR ID	DWR_RD0	827_01_s _ 201	2_22						
Action/Comments									
Environmental Requirements.									





The revegetation site has grown and blocks visibility. Spring 2013

LM Start	0.61	Rating **	A/W	Issue No.	22 (cont)
LM End	0.92	Issue Type +	Ma	Location *	WS



The vegetation continues to grow taller. It makes visibility hard. Spring 2014

LM Start	0.61	Rating **	A/W	Issue No.	22 (cont)
LM End	0.92	Issue Type +	Ma	Location *	WS



Another view of the revegetation site. Spring 2014

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Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	1.35	03/18/2014 03/18/2014	John Williamson

LM Start	0.92	Rating **	A/W	Issue No.	23		
LM End	1.33	Issue Type +	Ma	Location *	WS		
Catagonia Earthen Levee				GPS Latitude/Longitude			
Calegory	Category			Start		End	
Item	Vegetation			38.6657	77 °	38.661267 °	
item				-121.6185	23 °	-121.613803 °	
DWR ID	DWR_RD0	827_01_s _ 201	2_23				
Action/Comments							
Trees / Woody Vegetation							



Trees on the very wide waterside berm. Photo taken spring 2012.

LM Start	1.10	Rating **	Α	Issue No.		111	
LM End	1.28	Issue Type +	Ma	Location *	WS		
Cotogon/ Earthen Levee			GPS La	atitud	le/Longitude		
Calegory	Category			Start		End	
Vegetation				38.6638	62 °	38.661863 °	
item				-121.6163	89 °	-121.614378 °	
DWR ID	DWR_RD0	827_01_s _ 201	4_111				
Action/Comments							
Control annual grass and weeds on the levee slopes and easements.							



The vegetation is clear on the levee slope. Spring 2014

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Unit Cover Sheet

Spring 2014 Levee Inspection Results

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles
Unit No. 02 Yolo Bypass	Left	2.84

	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/18/2014 - 03/18/2014			
DWR Inspector	John Williamson			
Accompanied By	Dan Ramos Ramco			

Summer & Winter Inspections

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Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84	03/18/2014 03/18/2014	John Williamson

LM Start	0.01	Rating **	М	Issue No.		198	
LM End	2.76	Issue Type +	Ма	Location *	WS		
Category Earthen Levee			GPS Latitude/Longitude				
			Start		End		
Item	Vegetatio	n		38.6764	47 °	38.641923	
пеш				-121.6427	78 °	-121.620883	
DWR ID	DWR_RD0	827_02_s _ 201	4_198				
Action/Comments							
Control an	Control annual grass and weeds on the levee slopes and easements.						



Control tall grasses along the waterside slope. Spring 2014

LM Start	0.01	Rating **	М	Issue No.		2	
LM End	0.53	Issue Type +	En	Location *		LS	
Earthen Levee			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Item	Encroachments			38.6764	40°	38.669401 °	
item				-121.6427	47 °	-121.641417 °	
DWR ID	DWR_RD0	827_02_f _ 201	2_2				
Action/Comments							
Ditch							



Ditch runs along the landside toe. Photo fall 2012.

Photo 2 of 2 : johngw_s_20140324_661.jpg

LM Start	0.01	Rating **	М	Issue No.	2 (cont)
LM End	0.53	Issue Type +	En	Location *	LS



The ditch run along the landside slope. Spring 2014

* Location LS : Land Side WS : Water Side CR : Crown

** Rating

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Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84	03/18/2014 03/18/2014	John Williamson

LM Start	0.02	Rating **	М	Issue No.		6	
LM End	2.78	Issue Type +	Ma	Location *	LS		
Category	evee	GPS Latitude/Longitude					
Category				Start		End	
Item	Vegetation			38.6764	70°	38.641780 °	
item				-121.6427	45 °	-121.620784 °	
DWR ID	DWR_RD0	827_02_f _ 201	3_6				
Action/Comments							
Control annual grass and weeds on the levee slopes and easements.							



Tall grasses and weeds block visibility of the levee slope. Fall 2013

LM Start	0.02	Rating **	М	Issue No.	6 (cont)
LM End	2.78	Issue Type +	Ma	Location *	LS



Control tall grasses along the landside levee slope. Spring 2014

LM Start	0.11	Rating **	N	Issue No.		4	
LM End	0.11	Issue Type +	Ма	Location *		CR	
Earthen Levee			GPS Latitude/Longitude				
Calegory	Category			Start		End	
Trim / Thin Trees				38.6752	36 °	38.675236 °	
пеш				-121.6429	85 °	-121.642985 °	
DWR ID	DWR_RD0	827_02_s _ 201	2_4				
Action/Comments							
Tree stum	ps.						



A tree stump on the levee shoulder. Photo fall 2012.

* Location LS : Land Side WS : Water Side CR : Crown ** Rating

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Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

or & Maintain En : Enforcement

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84	03/18/2014 03/18/2014	John Williamson

LM Start	0.65	Rating **	М	Issue No.		197		
LM End	0.65	Issue Type +	Ma	Location *		WS		
Category Earthen Levee			GPS Latitude/Longitude					
Calegory				Start	End			
Item	Animal Control		38.66787	'2 °	38.667872 °			
item		-121.64059	9 °	-121.640599 °				
DWR ID	DWR_RD0827_02_s _ 2014_197							
Action/Comments								
Donair tho	Popair the loves close damaged by livestack and provent large animal							

Repair the levee slope damaged by livestock and prevent large animal access.



A large rodent hole on the waterside levee slope. Spring 2014

LM Start	1.55	Rating **	С	Issue No.		1		
LM End	1.55	Issue Type +	Ob	Location *		CR		
Category Earthen Levee				GPS Latitude/Longitude				
Calegory				Start	End			
Item	Cracking			38.657402 °		38.657402 °		
item			-121.6311	45 °	-121.631145 °			
DWR ID	DWR ID DWR_RD0827_02_f _ 2013_1							
Action/Comments								
Monitor and have inspected by geotechnical engineer.								

No Photos

LM Start	2.03	Rating **	U	Issue No.		5
LM End	2.16	Issue Type +	Ob	Location *	CR	
Category Earthen Levee		GPS Latitude/Longitude				
Calegory				Start End		End
Item	Cracking		38.65131	6 °	38.649804 °	
item			-121.62668	30 °	-121.625759 °	
DWR ID	DWR_RD0827_02_f _ 2013_5					
Action/Comments						
Manitaron	ممن مرام ا	nootod by an	oto ob oio	al anginaar		

Monitor and have inspected by geotechnical engineer.



The crack is 4-6 inches wide and 3 feet deep with a length of 6 feet. Fall 2013

* Location LS : Land Side WS : Water Side CR : Crown * Rating

A : Acceptable
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Ma : Maintenance Deficiancy
Ob : Design & System Obsolescence

Maintain En : Enforcement

Levee Inspection Report By Mile - Spring 2014

Reclamation District No. 0827 Elkhorn

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Yolo Bypass	Left	2.84	03/18/2014 03/18/2014	John Williamson

LM Start	2.31	Rating **	М	Issue No.		24
LM End	2.31	Issue Type +	Ma	Location *		LS
Category Earthen Levee			GPS Latitude/Longitude			
Calegory				Start End		
Item	Slope Stability		38.6477	03 °	38.647703 °	
пеш				-121.6244	50 °	-121.624450 °
DWR ID	DWR_RD0	827_02_s _ 201	2_24			
Action/Comments						

Repair slope instability.

Inspector Comments: There is cracking along the levee slope not greater than 200 feet. Need to monitor.



A buldge in the levee slope. Photo fall 2012.

LM Start	2.69	Rating **	М	Issue No.		199	
LM End	2.69	Issue Type +	Ma	Location *	LS		
Category Earthen Levee			GPS Latitude/Longitude				
Calegory				Start End			
Item Animal Control		38.6430	02 °	38.643002	0		
				-121.6215	36 °	-121.621536	0
DWR ID	DWR_RD0	827_02_s _ 201	4_199				
Action/Comments							

Repair the levee slope damaged by livestock and prevent large animal access.



A rodent hole on the landside levee slope. Spring 2014

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